

Vienna Instruments
Solo Download Instruments
Alto Saxophone
Full Library

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Introduction

Welcome to the Vienna Symphonic Library, and thank you for purchasing one of our Solo Download Instruments! This document contains the mapping information for the "Full" version of the Vienna Instruments Alto Saxophone. You will find in it a comprehensive survey of the articulations/Patches content, a listing of abbreviations, and the mapping list proper which gives details for every Patch, Matrix, and Preset.

"Full" Library

As opposed to the "Standard" versions of our Solo Download Instruments, the "Full" versions are identical with the corresponding instruments of a DVD Collection, i.e., they contain exactly the same samples, Patches, Matrices and Presets as the latter without any restrictions.

Installing a Download Instrument's Full version copies that instrument's sample content to a separate folder on your hard disk, so that it is not necessary to keep its Standard version installed – you may either delete it from your hard disk or at least remove it from the Directory Manager's list of activated instruments. In the Vienna Instruments Browser, the path of the Full version will be the same as that of the corresponding DVD Instrument, so that you can still see both versions as separate entries if you keep the Standard version installed.

Data paths and Patch name conventions

Since the Full versions of Download Instruments conform to the corresponding DVD Instruments, the data paths in your Vienna Instruments browser will be different than those of Standard Download or Special Edition Instruments. For instance, the path of the Standard Download Library of Flute 1 is "02D Flute-1", and all Patches can be found in this folder regardless of the articulation group they belong to. The Patch number is also marked with a "D" so that you immediately know it is a Download Instrument. In the Vienna Special Edition, Flute 1 is located in the folder "11 Flutes" together with the other flutes. Here, the Patch number is marked with an "S". The Full Download of Flute 1 is located in the subfolder "32 Flute" of the section "Woodwind Patches", which again contains subfolders grouping the Patches according to type, e.g., "01 SHORT + LONG NOTES", "02 DYNAMICS", etc. Patch names of the Full Download Library may differ from the corresponding ones of the Standard Download Library.

While Full Download Instruments contain all articulations of the corresponding DVD Instruments, their Patches are not divided into Standard and Extended content. The list of articulations further down which gives a summary of the Library's contents.

Special Patch configurations which sometimes are part of a Standard Download Instrument may be found in a reserved folder called "98 RESOURCES" in the Full Instrument. E.g., Flute 1 Standard contains the Patch "22D FL1 legato-sus"; in Flute 1 Full, this Patch is called "01 FL1_perf_leg_sustain" and is located in the Resources' subfolder "03 Perf Speed variation". (Apart from that, it also contains more samples.) Other articulations that can be found in the Resources folder are isolated dynamics repetitions in the subfolder "01 Perf Rep dyn" – e.g., the five repetitions of a legato crescendo, divided into separate Patches – and extracted velocity layers of sustained notes in the subfolder "02 Long Notes – Single Layer".

Patch information

The Patch information includes articulation type, playing range, number of samples used, RAM requirements, the number of velocity layers and alternations, AB switching possibilities, etc., as well as Patch specific information if necessary.

Where the type of articulation requires a special mapping (e.g., natural harmonics patches), the mapping layout will be shown in a detailed graphic.

Major and minor runs are always mapped to the keys of their scale, as are **arpeggios** to the keys of the broken chord played. **Grace notes** and **mordents** are mapped to their target note, i.e., the note the articulation ends with. Due to their nature, all **upward and downward articulations** (e.g., fixed glissandos and octave runs) have different mapping ranges – the upward movements ending the involved interval below the Patch's upper mapping range, while downward movements end the interval above its lower mapping range. (Please note that not all of the articulations mentioned above may be contained in your Collection.)

The Patch information also lists a Patch's velocity layers in detail. Velocity layer switches generally are the same for patches with the same number of layers but may occasionally be adapted to the instrument's requirements:

Layers	Layer 1	Layer 2	Layer 3	Layer 4	Layer 5	Layer 6
2	1–88	89–127				
3	1–55	56–88	89–127			
4	1–55	56–88	89–108	109–127		
5	1–24	25–55	56–88	89–108	109–127	
6	1–24	25–55	56–88	89–108	109–118	119–127

Interval performances

Interval performances are one of the outstanding features of our Vienna Instruments. They allow you to play authentic legato without any programming tricks. In our Silent Stage, all intervals from minor second to the octave were recorded for every instrument – up and down, of course; that makes 24 interval samples per note for one velocity alone! When you load an interval performance Patch and play a line on your keyboard, the software automatically joins the right samples with their interval transitions again, and you hear a perfect legato. By the way, this technique is not only used for legato but also for other articulations like the strings' portamento, marcato, or détaché and spiccato articulations.

Interval performances also contain at least two legato repetitions for every note which alternate automatically whenever you strike a key more than once. There also are preconfigured thresholds for legato and repetition notes: The legato threshold – i.e., the maximum break between notes where legato is played – is 50 ms. Otherwise, a sustained starting note will sound so that you can easily start a new phrase without leaving the legato Patch. For note repetitions, the threshold is 200 ms: a break up to that duration will yield a legato repetition; if the break is longer, a new starting note. But of course, it's mingling legato with other articulations which makes a piece really come alive.

Due to their nature, all interval performances are monophonic; otherwise, the software would have to be able to decide which source note belongs to which target note. To circumvent this, you can open two VI instances of the same instrument on separate MIDI tracks without any additional strain on your RAM.

Note: the Vienna Instruments PRO player software also allows you to play polyphonic Interval performances.

Another variety of interval performance you will come across is the "perf-leg_sus" Patch. These Patches also contain normal legatos, only the target note of each interval is crossfaded into a looped sustain. They can be used for slower pieces with long notes; however, you should use them with circumspection, since plain legatos sound more lively because they not only render the interval transitions as they were played, but also have different target samples for every interval instead of the same sustained note: When you play, e.g., c–e and then c#–e with normal legato, you will get two different "e" tones; with sus-legato you won't.

Matrix information

Each Matrix listing contains information regarding the Patches used for the Matrix, the number of horizontal and vertical dimensions, and switching properties. A mapping table shows the Cell positions for each of the Matrix' Patches.

A/B switching normally is set to A0 for upward/crescendo, and B0 for downward/diminuendo. However, some bass instruments go below that range so that the A/B keys have to be adapted accordingly. For example, the A/B switches for double bass are A0 and A#0 because the instrument's lower range extends to B0.

In order to facilitate working with **MIDI controller switches** like the Modulation wheel, the switching positions are not distributed equally across the controller range if they control more than two Matrix rows or columns; generally, the switching range will be narrower at the extreme positions because they are easy to set, and wider in the middle where it is harder to find the desired setting.

Speed controller switches naturally are adjusted to the Patches involved, and have been tested carefully as to their playability. However, if you find that they do not fit your playing, or want to try out other settings, you can change this as well as any other controller's settings at the **Control edit** page, and save the result in your Custom Matrix folder.

Preset information

The Preset information lists the Matrices used in the Preset as well as its keyswitches. All other information can be gathered from the Matrix and Patch listings, so there's not really much to say here. Please note that the Matrices of a Preset can also be switched with MIDI Program Changes (VI: 101–112; VI PRO: 1–127) instead of keyboard notes, and if you like to keep your keyboard free for playing instead of switching, you can disable Preset keyswitching and only use MIDI Program Changes. Vienna Instruments PRO also allows you to define a MIDI Control for Preset keyswitching.

Abbreviations

Here's a list of abbreviations in Patch names, which will help you to determine a Patch's content even without the help of the Vienna Instruments browser. Please note that not all of the abbreviations may occur in the manual on hand.

Abbreviation	Meaning	Abbreviation	Meaning
150, 160, ...	150, 160, ... BPM (beats per minute)	lo	long
1s, 2s, ...	tone length 1 sec., 2 sec., ...	marc	marcato
acc	accelerando	me	medium
all	combination of all Patches of a category	mi	minor
cre	crescendo	noVib	without vibrato
dim	diminuendo	perf-rep	repetition performance
dyn	dynamics (crescendo and diminuendo)	por	portato
dyn5, dyn9	dynamics, 5/9 repetitions	run	octave run
fa	fast	sl	slow
fast-rep	fast repetitions	sta, stac	staccato
flutter	flutter tonguing	str	strong
fx	effect sound	sus	sustained
gliss	glissando	Vib	with (medium) vibrato
leg	legato	Vib-progr	progressive vibrato
		XF	cell crossfade Matrix

Articulations

71 Alto Sax	
01 SHORT + LONG NOTES	Staccato Portato short and medium Slap short and long, key noise Sustained with normal, progressive, and without vibrato Sustained, "dirty" Short and long bends
02 DYNAMICS	Medium dynamics with vibrato, 1.5/2/3/4/5 sec. Strong dynamics with vibrato, 3/4/5 sec. Medium dynamics without vibrato, 1.5/2/3/4 sec. Strong dynamics without vibrato, 2/3/4 sec. Crescendo-diminuendo with vibrato, 5 sec. Crescendo-diminuendo without vibrato, 2, 3 and 4 sec. Diminuendo-crescendo without vibrato, 2 and 3 sec. Fortepiano, sforzato. sforzatissimo with and without vibrato
03 FLATTER + TRILLS	Flutter tonguing, crescendo Trills normal and accelerando, minor and major 2nd Dynamics for all trills
10 PERF INTERVAL	Legato with vibrato Legato without vibrato, sustain crossfading Grace notes, minor 2nd to octave Portamento Glissandos, up, minor 2nd to octave Marcato
11 PERF INTERVAL FAST	Legato Marcato
12 PERF TRILL	Trills, legato, minor 2nd to major 3rd
13 PERF REPETITION	Legato slow, medium, and fast Portato Staccato Dynamics for all repetitions
14 FAST REPETITION	Staccato, 9 repetitions, 140 to 180 BPM Normal and dynamics
15 GRACE NOTES	Grace notes Minor 2nd to octave Up and down
16 SCALE RUNS	Octave runs Legato, chromatic and whole tone Up and down
17 BENDS DOWN	Sustained with progressive vibrato, and 'dirty' Grace notes, portamento, glissando up, marcato interval performances Performance trills

The orchestra

There are several ways of setting up an orchestra, depending on the era of the piece played, the type of the piece and the instruments it requires, and even on the preference of the conductor. The figure below shows one of the more common setups, which can be taken as a guideline for mixing a composition, properly positioning the instruments in the stereo field and adding reverb according to the size of the concert hall you want your piece to be played in.



- | | |
|---------------------------|---------------------------------|
| 1 1st and 2nd violin | 9 Bassoon, contrabassoon |
| 2 Viola | 10/11 Trumpet |
| 3 Cello | 12/13 Horn |
| 4 Double bass | 14/15 Trombone |
| 5 Harp | 16 Tuba |
| 6 Concert flute, piccolo | 17 Timpani |
| 7 Oboe, English horn | 18 Drums, cymbals |
| 8 Clarinet, bass clarinet | 19 other percussion instruments |

Pitch

For designating pitch, the Vienna Symphonic Library uses International Pitch Notation (IPN), which was agreed upon internationally under the auspices of the Acoustical Society of America. In this system the international standard of A=440 Hz is called A4 and middle C is C4. All pitches are written as capital letters, their respective octave being indicated by a number next to it. The lowest C on the piano is C1 (the A below that is A0), etc.

You can tune your Vienna Instruments to other players, or adjust it to tunings of earlier musical periods by setting the Perform page's Master Tune option within a range of 420 to 460 Hz.

71 Alto Sax

Patches

01 SHORT + LONG NOTES

Range: C3–C#6



01 SX-AI_staccato

Samples: 370

RAM: 23 MB

Staccato
5 velocity layers
4 Alternations

02 SX-AI_portato_short

Samples: 370

RAM: 23 MB

Portato, short
5 velocity layers
4 Alternations

03 SX-AI_portato_medium

Samples: 370

RAM: 23 MB

Portato, medium
5 velocity layers
4 Alternations

04 SX-AI_slap_short

Range: C3–A4

Samples: 32

RAM: 2 MB

Slap, short, soft and hard
The soft slaps go up to A4, the hard ones to G#4
1 velocity layer
2 Alternations
AB switch: slap soft/hard

05 SX-AI_slap_long

Range: C3–G5

Samples: 60

RAM: 3 MB

Slap, long, soft and hard
The soft slaps go up to C#5, the hard ones to G5
1 velocity layer
2 Alternations
AB switch: slap soft/hard

06 SX-AI_key-noise

Range: C3–D6

Samples: 22

RAM: 1 MB


Key noise
The 11 keys are repeated over the range of the Patch (C – 1st key, B – 11th key)
1 velocity layer
2 Alternations

11 SX-AI_sus_Vib

Samples: 219

RAM: 13 MB

Sustained, with vibrato
5 velocity layers
Release samples

12 SX-Al_sus_Vib-progr Sustained, progressive vibrato 5 velocity layers Release samples		Samples: 181	RAM: 11 MB
13 SX-Al_sus_noVib Sustained, without vibrato 5 velocity layers Release samples		Samples: 186	RAM: 11 MB
14 SX-Al_sus_dirty Sustained, "dirty" 2 velocity layers Release samples	Range: C3–A6	Samples: 144	RAM: 9 MB
21 SX-Al_bend Short and long downward bends The longer bends have a glissando-like quality 3 velocity layers AB switch: bend short/long		Samples: 116	RAM: 7 MB
02 DYNAMICS	Range: C3–C#6		
01 SX-Al_dyn-me_Vib_1'5s Medium crescendo and diminuendo with vibrato, 1.5 sec. 2 velocity layers AB switch: crescendo/diminuendo		Samples: 76	RAM: 4 MB
02 SX-Al_dyn-me_Vib_2s Medium crescendo and diminuendo with vibrato, 2 sec. 2 velocity layers AB switch: crescendo/diminuendo		Samples: 76	RAM: 4 MB
03 SX-Al_dyn-me_Vib_3s Medium crescendo and diminuendo with vibrato, 3 sec. 2 velocity layers AB switch: crescendo/diminuendo		Samples: 76	RAM: 4 MB
04 SX-Al_dyn-me_Vib_4s Medium crescendo and diminuendo with vibrato, 4 sec. 2 velocity layers AB switch: crescendo/diminuendo		Samples: 76	RAM: 4 MB
05 SX-Al_dyn-me_Vib_5s Medium crescendo and diminuendo with vibrato, 5 sec. 2 velocity layers AB switch: crescendo/diminuendo		Samples: 76	RAM: 4 MB
11 SX-Al_dyn-str_Vib_3s Strong crescendo and diminuendo with vibrato, 3 sec. 1 velocity layer AB switch: crescendo/diminuendo		Samples: 38	RAM: 2 MB

12 SX-AI_dyn-str_Vib_4s Strong crescendo and diminuendo with vibrato, 4 sec. 1 velocity layer AB switch: crescendo/diminuendo	Samples: 38	RAM: 2 MB
13 SX-AI_dyn-str_Vib_5s Strong crescendo and diminuendo with vibrato, 5 sec. 1 velocity layer AB switch: crescendo/diminuendo	Samples: 38	RAM: 2 MB
21 SX-AI_dyn-me_noVib_1'5s Medium crescendo and diminuendo without vibrato, 1.5 sec. 2 velocity layers AB switch: crescendo/diminuendo	Samples: 76	RAM: 4 MB
22 SX-AI_dyn-me_noVib_2s Medium crescendo and diminuendo without vibrato, 2 sec. 2 velocity layers AB switch: crescendo/diminuendo	Samples: 76	RAM: 4 MB
23 SX-AI_dyn-me_noVib_3s Medium crescendo and diminuendo without vibrato, 3 sec. 2 velocity layers AB switch: crescendo/diminuendo	Samples: 76	RAM: 4 MB
24 SX-AI_dyn-me_noVib_4s Medium crescendo and diminuendo without vibrato, 4 sec. 2 velocity layers AB switch: crescendo/diminuendo	Samples: 76	RAM: 4 MB
31 SX-AI_dyn-str_noVib_2s Strong crescendo and diminuendo without vibrato, 2 sec. 1 velocity layer AB switch: crescendo/diminuendo	Samples: 38	RAM: 2 MB
32 SX-AI_dyn-str_noVib_3s Strong crescendo and diminuendo without vibrato, 3 sec. 1 velocity layer AB switch: crescendo/diminuendo	Samples: 38	RAM: 2 MB
33 SX-AI_dyn-str_noVib_4s Strong crescendo and diminuendo without vibrato, 4 sec. 1 velocity layer AB switch: crescendo/diminuendo	Samples: 38	RAM: 2 MB
41 SX-AI_pfp_Vib_5s Crescendo-diminuendo with vibrato, 5 sec. 2 velocity layers	Samples: 38	RAM: 2 MB
42 SX-AI_fpf_Vib_5s Diminuendo-crescendo with vibrato, 5 sec. 2 velocity layers	Samples: 38	RAM: 2 MB

51 SX-AI_pfp_noVib_2s Crescendo-diminuendo without vibrato, 2 sec. 2 velocity layers	Samples: 38	RAM: 2 MB
52 SX-AI_pfp_noVib_3s Crescendo-diminuendo without vibrato, 3 sec. 2 velocity layers	Samples: 38	RAM: 2 MB
53 SX-AI_pfp_noVib_4s Crescendo-diminuendo without vibrato, 4 sec. 2 velocity layers	Samples: 38	RAM: 2 MB
54 SX-AI_fpf_noVib_2s Diminuendo-crescendo without vibrato, 2 sec. 2 velocity layers	Samples: 38	RAM: 2 MB
55 SX-AI_fpf_noVib_3s Diminuendo-crescendo without vibrato, 3 sec. 2 velocity layers	Samples: 38	RAM: 2 MB
61 SX-AI_fp_Vib Fortepiano, with vibrato 1 velocity layer 2 Alternations	Samples: 37	RAM: 2 MB
62 SX-AI_sfz_Vib Sforzato, with vibrato 1 velocity layer 2 Alternations	Samples: 37	RAM: 2 MB
63 SX-AI_sffz_Vib Sforzatissimo, with vibrato 1 velocity layer 2 Alternations	Samples: 37	RAM: 2 MB
71 SX-AI_fp_noVib Fortepiano, without vibrato 1 velocity layer 2 Alternations	Samples: 37	RAM: 2 MB
72 SX-AI_sfz_noVib Sforzato, without vibrato 1 velocity layer 2 Alternations	Samples: 37	RAM: 2 MB
73 SX-AI_sffz_noVib Sforzatissimo, without vibrato 1 velocity layer 2 Alternations	Samples: 37	RAM: 2 MB



03 FLATTER + TRILLS

01 SX-AI_flutter_cre Flutter tonguing, crescendo 1 velocity layer	Range: C3–B5	Samples: 35	RAM: 2 MB
11 SX-AI_trill_1 Trills, minor 2nd 2 velocity layers Release samples	Range: C3–G5	Samples: 64	RAM: 4 MB
12 SX-AI_trill_2 Trills, major 2nd 2 velocity layers Release samples	Range: C3–G5	Samples: 64	RAM: 4 MB
13 SX-AI_trill_1_dyn Trills, crescendo and diminuendo, minor 2nd 1 velocity layer AB switch: crescendo/diminuendo	Range: C3–G5	Samples: 32	RAM: 2 MB
14 SX-AI_trill_2_dyn Trills, crescendo and diminuendo, major 2nd 1 velocity layer AB switch: crescendo/diminuendo	Range: C3–G5	Samples: 32	RAM: 2 MB
15 SX-AI_trill_1_acc Trills accelerando, minor 2nd 2 velocity layers Release samples	Range: C3–A5	Samples: 68	RAM: 4 MB
16 SX-AI_trill_2_acc Trills accelerando, major 2nd 2 velocity layers Release samples	Range: C3–A5	Samples: 68	RAM: 4 MB
17 SX-AI_trill_1_acc-dyn Trills accelerando, crescendo and diminuendo, minor 2nd 1 velocity layer AB switch: crescendo/diminuendo	Range: C3–A5	Samples: 34	RAM: 2 MB
18 SX-AI_trill_2_acc-dyn Trills accelerando, crescendo and diminuendo, major 2nd 1 velocity layer AB switch: crescendo/diminuendo	Range: C3–A5	Samples: 34	RAM: 2 MB

10 PERF INTERVAL**Range: C3–C#6****01 SX-AI_perf-legato_Vib****Samples: 1411 RAM: 88 MB**

Legato, with vibrato

3 velocity layers

Release samples

02 SX-AI_perf-legato_noVib_sus**Samples: 1284 RAM: 80 MB**

Legato, without vibrato

Sustain crossfading

3 velocity layers

Release samples

03 SX-AI_perf-legato_grace**Samples: 1411 RAM: 88 MB**

Grace notes, legato, minor 2nd to octave

3 velocity layers

Release samples

04 SX-AI_perf_portamento**Samples: 483 RAM: 30 MB**

Portamento

1 velocity layer

Release samples

05 SX-AI_perf-legato_gliss-up**Samples: 955 RAM: 59 MB**

Glissandos, upward, minor 2nd to octave

3 velocity layers

Release samples

06 SX-AI_perf-marcato**Samples: 947 RAM: 59 MB**

Marcato

2 velocity layers

Release samples

11 PERF INTERVAL FAST**Range: C3–C#6****01 SX-AI_perf-legato_fa****Samples: 1513 RAM: 94 MB**

Interval performances: Legato, fast

3 velocity layers

Release samples

02 SX-AI_perf-marcato_fa**Samples: 1250 RAM: 78 MB**

Interval performances: Marcato, fast

2 velocity layers

Release samples

12 PERF TRILL**Range: C3–A#5****01 SX-Al_perf-trill****Samples: 3055 RAM: 190 MB**

Performance trills, legato, minor 2nd to major 3rd
 3 velocity layers
 Release samples

13 PERF REPETITION**Range: C3–C#6****01 SX-Al_perf-rep_leg-sl****Samples: 285 RAM: 17 MB**

Repetition performances: Legato, slow
 3 velocity layers

02 SX-Al_perf-rep_leg-me**Samples: 285 RAM: 17 MB**

Repetition performances: Legato, medium
 3 velocity layers

03 SX-Al_perf-rep_leg-fa**Samples: 285 RAM: 17 MB**

Repetition performances: Legato, fast
 3 velocity layers

04 SX-Al_perf-rep_por**Samples: 513 RAM: 32 MB**

Repetition performances: Portato
 3 velocity layers

05 SX-Al_perf-rep_sta**Samples: 513 RAM: 32 MB**

Repetition performances: Staccato
 3 velocity layers

21 SX-Al_perf-rep_dyn5_leg-sl**Samples: 190 RAM: 11 MB**

Repetition performances: Legato dynamics, slow, 5 repetitions
 1 velocity layer
 AB switch: crescendo/diminuendo

22 SX-Al_perf-rep_dyn5_leg-me**Samples: 190 RAM: 11 MB**

Repetition performances: Legato dynamics, medium, 5 repetitions
 1 velocity layer
 AB switch: crescendo/diminuendo

23 SX-Al_perf-rep_dyn5_leg-fa**Samples: 190 RAM: 11 MB**

Repetition performances: Legato dynamics, fast, 5 repetitions
 1 velocity layer
 AB switch: crescendo/diminuendo

24 SX-Al_perf-rep_dyn9_por**Samples: 342 RAM: 21 MB**

Repetition performances: Portato dynamics, 9 repetitions
 1 velocity layer
 AB switch: crescendo/diminuendo

25 SX-AI_perf-rep_dyn9_sta**Samples: 342 RAM: 21 MB**

Repetition performances: Staccato dynamics, 9 repetitions

1 velocity layer

AB switch: crescendo/diminuendo

14 FAST REPETITION**Range: C3–C#6****01 SX-AI_fast-rep_140 (150/160/170/180)****Samples: 114 RAM: 7 MB**

Fast repetitions

Staccato, 9 repetitions, 140/150/160/170/180 BPM

3 velocity layers

Release samples

11 SX-AI_fast-rep_140_dyn (150/160/170/180)**Samples: 38 RAM: 2 MB**

Fast repetitions

Staccato, 9 repetitions, 140/150/160/170/180 BPM, crescendo and diminuendo

1 velocity layer

AB switch: crescendo/diminuendo

15 GRACE NOTES

The samples are mapped to their target notes.

01 SX-AI_grace-1**Range: C3–C6****Samples: 181 RAM: 11 MB**

Grace notes, minor 2nd

3 velocity layers

Release samples

AB switch: up/down

02 SX-AI_grace-2**Range: C3–C#6****Samples: 181 RAM: 11 MB**

Grace notes, major 2nd

3 velocity layers

Release samples

AB switch: up/down

03 SX-AI_grace-3**Range: C3–C6****Samples: 175 RAM: 10 MB**

Grace notes, minor 3rd

3 velocity layers

Release samples

AB switch: up/down

04 SX-AI_grace-4**Range: C3–C#6****Samples: 175 RAM: 10 MB**

Grace notes, major 3rd

3 velocity layers

Release samples

AB switch: up/down

05 SX-Al_grace-5 Grace notes, 4th 3 velocity layers Release samples AB switch: up/down	Range: C3–C6	Samples: 169	RAM: 10 MB
06 SX-Al_grace-6 Grace notes, diminished 5th 3 velocity layers Release samples AB switch: up/down	Range: C3–C#6	Samples: 169	RAM: 10 MB
07 SX-Al_grace-7 Grace notes, 5th 3 velocity layers Release samples AB switch: up/down	Range: C3–C6	Samples: 163	RAM: 10 MB
08 SX-Al_grace-8 Grace notes, minor 6th 3 velocity layers Release samples AB switch: up/down	Range: C3–C#6	Samples: 163	RAM: 10 MB
09 SX-Al_grace-9 Grace notes, major 6th 3 velocity layers Release samples AB switch: up/down	Range: C3–C6	Samples: 157	RAM: 9 MB
10 SX-Al_grace-10 Grace notes, minor 7th 3 velocity layers Release samples AB switch: up/down	Range: C3–C#6	Samples: 157	RAM: 9 MB
11 SX-Al_grace-11 Grace notes, major 7th 3 velocity layers Release samples AB switch: up/down	Range: C3–C6	Samples: 151	RAM: 9 MB
12 SX-Al_grace-12 Grace notes, octave 3 velocity layers Release samples AB switch: up/down	Range: C3–C#6	Samples: 151	RAM: 9 MB

16 SCALE RUNS**Range: C3–C#6****01 SX-AI_run-leg_chromatic****Samples: 78****RAM: 4 MB**

Octave runs, legato
 Chromatic
 3 velocity layers
 AB switch: up/down

02 SX-AI_run-leg_whole**Samples: 78****RAM: 4 MB**

Octave runs, legato
 Whole tone
 3 velocity layers
 AB switch: up/down

17 BENDS DOWN**Range: C3–C#6****01 SX-AI_sus_Vib_bend****Samples: 244****RAM: 15 MB**

Single notes: Sustained, vibrato, with bend release
 5 velocity layers
 Release samples
 AB switch: bend short/long

02 SX-AI_sus_Vib-progr_bend**Samples: 206****RAM: 12 MB**

Single notes: Sustained, progressive vibrato, with bend release
 5 velocity layers
 Release samples
 AB switch: bend short/long

03 SX-AI_sus_noVib_bend**Samples: 211****RAM: 13 MB**

Single notes: Sustained, no vibrato, with bend release
 5 velocity layers
 Release samples
 AB switch: bend short/long

04 SX-AI_sus_dirty_bend**Range: C3–A6****Samples: 205****RAM: 12 MB**

Single notes: Sustained, "dirty", with bend release up to C#6
 2 velocity layers
 Release samples
 AB switch: bend short/long

11 SX-AI_perf-legato_Vib_bend**Samples: 1454****RAM: 90 MB**

Interval performances: Legato, with vibrato, with bend release
 3 velocity layers
 Release samples
 AB switch: bend short/long

12 SX-AI_perf-legato_grace_bend	Samples: 1454	RAM: 90 MB
Interval performances: Grace notes, legato, minor 2nd to octave, with bend release 3 velocity layers Release samples AB switch: bend short/long		
13 SX-AI_perf_portamento_bend	Samples: 562	RAM: 35 MB
Interval performances: Portamento, with bend release 1 velocity layer Release samples AB switch: bend short/long		
14 SX-AI_perf-legato_gliss-up_bend	Samples: 998	RAM: 62 MB
Interval performances: Glissandos, upward, minor 2nd to octave, with bend release 3 velocity layers Release samples AB switch: bend short/long		
15 SX-AI_perf-marcato_bend	Samples: 1008	RAM: 63 MB
Interval performances: Marcato, with bend release 2 velocity layers Release samples AB switch: bend short/long		
21 SX-AI_perf-trill_bend	Range: C3–A#5	Samples: 3098
Multi interval performances: Performance trills, legato, minor 2nd to major 3rd, with bend release 3 velocity layers Release samples AB switch: bend short/long		
98 RESOURCES		
Isolated dynamics repetitions: Legato slow and fast, portato, staccato Single layer long notes Legato with sustain crossfading		

01 Perf Rep dyn**Range: C3–C#6**

01 SX-AI_rep_cre5_leg-sl-1 (2/3/4/5)	Samples: 19	RAM: 1 MB
Extracted repetition Legato slow, crescendo, 1st to 5th note 1 velocity layer		
01 SX-AI_rep_dim5_leg-sl-1 (2/3/4/5)	Samples: 19	RAM: 1 MB
Extracted repetition Legato slow, diminuendo, 1st to 5th note 1 velocity layer		
02 SX-AI_rep_cre5_leg-fa-1 (2/3/4/5)	Samples: 19	RAM: 1 MB
Extracted repetition Legato fast, crescendo, 1st to 5th note 1 velocity layer		

02 SX-Al_rep_dim5_leg-fa-1 (2/3/4/5) Extracted repetition Legato fast, diminuendo, 1st to 5th note 1 velocity layer	Samples: 19	RAM: 1 MB
03 SX-Al_rep_cre9_por-1 (2/3/4/5/6/7/8/9) Extracted repetition Portato, crescendo, 1st to 9th note 1 velocity layer	Samples: 19	RAM: 1 MB
03 SX-Al_rep_dim9_por-1 (2/3/4/5/6/7/8/9) Extracted repetition Portato, diminuendo, 1st to 9th note 1 velocity layer	Samples: 19	RAM: 1 MB
04 SX-Al_rep_cre9_sta-1 (2/3/4/5/6/7/8/9) Extracted repetition Staccato, crescendo, 1st to 9th note 1 velocity layer	Samples: 19	RAM: 1 MB
04 SX-Al_rep_dim9_sta-1 (2/3/4/5/6/7/8/9) Extracted repetition Staccato, diminuendo, 1st to 9th note 1 velocity layer	Samples: 19	RAM: 1 MB
<div> <div>02 Long Notes - Single Layer</div> <div>Range: C3–C#6</div> <div>  </div> </div>		
01 SX-Al_sus_p Sustained, piano 1 velocity layer Release samples	Samples: 36	RAM: 2 MB
02 SX-Al_sus_mp Sustained, mezzopiano 1 velocity layer Release samples	Samples: 36	RAM: 2 MB
03 SX-Al_sus_mf Sustained, mezzoforte 1 velocity layer Release samples	Samples: 36	RAM: 2 MB
04 SX-Al_sus_f Sustained, forte 1 velocity layer Release samples	Samples: 74	RAM: 4 MB
05 SX-Al_sus_ff Sustained, fortissimo 1 velocity layer Release samples	Samples: 74	RAM: 4 MB

03 Perf Speed variation**Range: C3–C#6****01 SX-Al_perf-leg_sustain****Samples: 1502 RAM: 93 MB**

Interval performances: Legato with sustain crossfading

3 velocity layers

Release samples

99 RELEASE

This section contains release samples for various patches of the other sections. Please do not try to load them into a Vienna Instruments matrix – you will not be able to hear anything when you try to play them.

Matrices

Matrix - LEVEL 1

L1 SX-AI Articulation Combi

Samples: 1448 RAM: 90 MB

Single notes

Staccato, portato short, sustained with and without vibrato normal and with bends, crescendo-diminuendo with vibrato 5 sec., crescendo-diminuendo without vibrato 4 sec., fortepiano and sforzato with vibrato, trills half and whole tone

Matrix switches: Horizontal: Keyswitches, C1–F1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1
V1	stac	sus vib.	sus vib. bend	pfp vib. 5s.	fp vib.	trill half
V2	port. short	sus no vib.	sus no vib. bend	pfp no vib. 4s.	sfz vib.	trill whole

L1 SX-AI Perf-Legato Speed

Samples: 1936 RAM: 121 MB

Performance legato with vibrato and sustain crossfading, with vibrato, and fast

Performance legato with vibrato and bend release

Speed controller

Matrix switches: Horizontal: Speed, 3 zones Vertical: Modwheel, 2 zones

	H1	H2	H3
legato normal	vib. sustain XF	vib. normal	fast
legato bend	%	%	%

L1 SX-AI Perf-Repetitions Combi

Samples: 1311 RAM: 81 MB

Repetition performances

Legato slow

Portato

Staccato

Matrix switches: Vertical: Modwheel, 3 zones

	repetitions
V1	legato slow
V2	portato
V3	staccato

Matrix - LEVEL 2 A - Advanced

01 SX-AI Perf-Universal

Samples: 3150 RAM: 196 MB

Interval performances

Legato vibrato with sustain crossfading, normal, and fast

Performance glissando, up

Marcato normal and fast

Speed controller

Matrix switches: Horizontal: Speed, 3 zones Vertical: Modwheel, 3 zones

	H1	H2	H3
legato	sustain XF	normal	fast
glissando up	%	%	%
marcato	normal	normal	fast

02 SX-AI Perf-Trill Speed**Samples: 3861 RAM: 241 MB**

Multi interval performances

Legato with vibrato, trills

Legato vibrato with bend release, trills with bend release

Glissando, trills

Speed controller

Matrix switches: Horizontal: Speed, 2 zones Vertical: Modwheel, 3 zones

	H1	H2
V1	legato vib.	trills
V2	legato vib. bends	trill bends
V3	glissando	trills

03 SX-AI Short+Long notes - All**Samples: 1603 RAM: 100 MB**

Single notes

Staccato, portato short, portato medium

Sustained with normal and progressive vibrato, 'dirty', and without vibrato

Matrix switches: Horizontal: Keyswitches, C1–D#1 Vertical: Modwheel, 4 zones

	C1	C#1	D1	D#1
V1	staccato	port. short	port. medium	sus. vibrato
V2	%	%	%	sus. prog. vib.
V3	%	%	%	sus. dirty
V4	%	%	%	sus. no vib.

Matrix - LEVEL 2 B - Standard**11 SX-AI Perf-Legato Speed****Samples: 1820 RAM: 113 MB**

Performance legato with vibrato and sustain crossfading, with vibrato, and fast

Speed controller

Matrix switches: Horizontal: Speed, 3 zones

	H1	H2	H3
legato	vib. sustain XF	vib. normal	fast

12 SX-AI Perf-Marcato Speed**Samples: 1412 RAM: 88 MB**

Interval performances^mMarcato normal and fast

Speed controller

Matrix switches: Horizontal: Speed, 2 zones

	H1	H2
Marcato	normal	fast

13 SX-AI Perf-Glissando Speed**Samples: 1831 RAM: 114 MB**

Performance glissando, legato with vibrato, and legato fast

Speed controller

Matrix switches: Horizontal: Speed, 3 zones

	H1	H2	H3
V1	glissando	legato vibrato	legato fast

14 SX-AI Short notes - All**Samples: 1202 RAM: 75 MB**

Single notes

Staccato, portato short, portato medium, slap short and long

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
V1	staccato	port. short	port.med.	slap short	slap long

15 SX-AI Dynamics**Samples: 795 RAM: 49 MB**

Dynamics

Medium crescendo and diminuendo with vibrato, 2, 3, and 4 sec.

Strong crescendo and diminuendo with vibrato, 3, 4, and 5 sec.

Medium crescendo and diminuendo without vibrato, 2, 3, and 4 sec.

Crescendo-diminuendo without vibrato, 2, 3, and 4 sec.

Fortepiano, sforzato, and sforzatissimo with vibrato

Matrix switches: Horizontal: Keyswitches, C1–D1 Vertical: Modwheel, 5 zones

	C1	C#1	D1
medium dyn. vib.	2 sec.	3 sec.	4 sec.
strong dyn. vib.	3 sec.	4 sec.	5 sec.
med.dyn. no vib.	2 sec.	3 sec.	4 sec.
ppp vib.	2 sec.	3 sec.	4 sec.
fp/sfz/sffz vib.	fp	sfz	sffz

16 SX-AI Trills - normal**Samples: 192 RAM: 12 MB**

Trills

Normal and dynamics

Half and whole tone

Matrix switches: Horizontal: Keyswitches, C1–C#1 Vertical: Modwheel, 2 zones

	C1	C#1
half tone	normal	dynamics
whole tone	normal	dynamics

17 SX-AI Trills - accelerando**Samples: 204 RAM: 12 MB**

Trills accelerando

Normal and dynamics

Half and whole tone

Matrix switches: Horizontal: Keyswitches, C1–C#1 Vertical: Modwheel, 2 zones

	C1	C#1
half tone	normal	dynamics
whole tone	normal	dynamics

18 SX-AI Trills - All**Samples: 396 RAM: 24 MB**

Trills constant speed and accelerando

Normal and dynamics

Half and whole tone

Matrix switches: Horizontal: Keyswitches, C1–D#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1
half tone	normal	dynamics	accelerando	acc. dynamics
whole tone	normal	dynamics	accelerando	acc. dynamics

19 SX-AI Bends - sus**Samples: 609 RAM: 38 MB**

Sustained notes with vibrato, progressive vibrato, 'dirty', and without vibrato
Normal and with bend release

Matrix switches: Horizontal: Keyswitches, C1–D#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1
sus. normal	vibrato	prog. vib.	dirty	no vibrato
sus. bend	%	%	%	%

20 SX-AI Bends - Perf**Samples: 2985 RAM: 186 MB**

Interval performances: Legato, portamento, glissando, and marcato
Normal and with bend release

Matrix switches: Horizontal: Keyswitches, C1–D#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1
normal	legato	portamento	glissando	marcato
bend RS	%	%	%	%

Matrix - LEVEL 2 C - Repetitions**31 SX-AI Perf-Repetitions - Combi****Samples: 1881 RAM: 117 MB**

Repetition performances
Slow, medium, and fast legato, portato, and staccato

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
V1	legato slow	legato medium	legato fast	portato	staccato

32 SX-AI Perf-Repetitions - Speed**Samples: 1596 RAM: 99 MB**

Repetition performances
Slow and fast legato, portato, and staccato
Speed controller

Matrix switches: Horizontal: Speed, 4 zones

	H1	H2	H3	H4
V1	legato slow	legato fast	portato	staccato

33 SX-AI Fast-Repetitions**Samples: 342 RAM: 21 MB**

Fast repetitions
140, 150, 160, 170, 180 BPM

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
speed/BPM	140	150	160	170	180

Matrix - LEVEL 2 D - Scale+Phrase**41 SX-AI Scale runs-legato - Special****Samples: 156****RAM: 9 MB**

Octave runs, legato, chromatic and whole tone

AB switch up/down

Matrix switches: Vertical: Modwheel, 2 zones

	legato
V1	chromatic
V2	whole tone

42 SX-AI Grace notes - All**Samples: 1189****RAM: 74 MB**

Grace notes, minor 2nd to octave

AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–B1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
interval	min. 2nd	maj. 2nd	min. 3rd	maj. 3rd	4th	dim. 5th	5th	min. 6th	maj. 6th	min. 7th	maj. 7th	octave

Matrix - LEVEL 2 E - Keyswitch Vel**71 SX-AI Legato slow - cre5****Samples: 95****RAM: 5 MB**

Slow legato notes: Crescendo, keyswitch velocity

Keyswitches control 5 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

72 SX-AI Legato fast - cre5**Samples: 95****RAM: 5 MB**

Fast legato notes: Crescendo, keyswitch velocity

Keyswitches control 5 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

73 SX-AI Portato - cre9**Samples: 171****RAM: 10 MB**

Portato notes: Crescendo, keyswitch velocity

Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

74 SX-AI Staccato - cre9**Samples: 171****RAM: 10 MB**

Staccato notes: Crescendo, keyswitch velocity

Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

75 SX-AI Combi - cre5**Samples: 190 RAM: 11 MB**

Slow and fast legato: Crescendo, keyswitch velocity
 Keyswitches control 5 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–E1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1
legato slow	1st	2nd	3rd	4th	5th
legato fast	1st	%	%	%	%

76 SX-AI Combi - cre9**Samples: 342 RAM: 21 MB**

Portato and staccato: Crescendo, keyswitch velocity
 Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
portato	1st	2nd	3rd	4th	5th	6th	7th	8th	9th
staccato	1st	%	%	%	%	%	%	%	%

77 SX-AI Legato slow - dim5**Samples: 95 RAM: 5 MB**

Slow legato notes: Diminuendo, keyswitch velocity
 Keyswitches control 5 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

78 SX-AI Legato fast - dim5**Samples: 95 RAM: 5 MB**

Fast legato notes: Diminuendo, keyswitch velocity
 Keyswitches control 5 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

79 SX-AI Portato - dim9**Samples: 171 RAM: 10 MB**

Portato notes: Diminuendo, keyswitch velocity
 Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

80 SX-AI Staccato - dim9**Samples: 171 RAM: 10 MB**

Staccato notes: Diminuendo, keyswitch velocity
 Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

81 SX-AI Combi - dim5**Samples: 190 RAM: 11 MB**

Slow and fast legato: Diminuendo, keyswitch velocity

Keyswitches control 5 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–E1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1
legato slow	1st	2nd	3rd	4th	5th
legato fast	1st	%	%	%	%

82 SX-AI Combi - dim9**Samples: 342 RAM: 21 MB**

Portato and staccato: Diminuendo, keyswitch velocity

Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
portato	1st	2nd	3rd	4th	5th	6th	7th	8th	9th
staccato	1st	%	%	%	%	%	%	%	%

Presets

SX-AI VSL Preset Level 1

Samples: 4415 RAM: 275 MB

L1 SX-AI_Perf-Legato Speed
 L1 SX-AI_Articulation Combi
 L1 SX-AI_Perf-Repetitions Combi
 Preset keyswitches: C2–D2

SX-AI VSL Preset Level 2

Samples: 9050 RAM: 565 MB

01 SX-AI Perf-Universal
 02 SX-AI Perf-Trill Speed
 L1 SX-AI Articulation Combi
 31 SX-AI Perf-Repetitions - Combi
 76 SX-AI Combi - cre9
 19 SX-AI Bends - sus
 Preset keyswitches: C2–F2